

## SECTION 2. Form PTO - 1449 (Modified)

FORM PTO-1499 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
18326.0000SERIAL NO.  
10/018,131APPLICANTS  
H. WehbergFILING DATE  
October 22, 2001GROUP  
3737INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

## PATENT DOCUMENTS

| EXAMINER<br>INITIAL | PATENT<br>NUMBER         | ISSUE<br>DATE            | PATENTEE       | CLASS | SUBCLASS |
|---------------------|--------------------------|--------------------------|----------------|-------|----------|
| <i>62</i>           | 3,970,074                | July 20, 1976            | Mogos, et al   | 128   | 2H       |
| <i>↓</i>            | 4,055,166                | Oct. 25, 1977            | Simpson, et al | 128   | 2H       |
| <i>↓</i>            | 4,135,497                | Jan. 23, 1979            | Meyers, et al  | 128   | 2H       |
| <i>↓</i>            | DE3020359<br>(WO8103418) | 12/3/81<br>(publn. date) | W. Hermann     |       |          |

Summary: The method for picking up and representing thermographic images of biological or technical structures, allows the sensing of abnormal temperature repartitions even when they are very low or when the corresponding areas differ very slightly as to their temperature values with respect to adjacent temperature values. According to this method, the temperature values for each image point of a thermogram are digitally picked up and recorded and the pitch of the local temperature variation is calculated, that is to say the temperature gradient for each image point in relation to its temperature and to the temperature value measured for the point adjacent thereto. For a selected image area, the local repartition of temperature gradients is represented. Abnormal temperature repartitions may thus be sensed, from such representation, where important temperature gradients exist.

|           |                          |               |          |     |     |
|-----------|--------------------------|---------------|----------|-----|-----|
| <i>62</i> | 4,186,748<br>(WO7900594) | Feb. 5, 1980  | Schlager | 128 | 736 |
| <i>↓</i>  | 4,524,779<br>(WO8500508) | June 25, 1985 | Brown    | 128 | 736 |
| <i>↓</i>  | 5,995,865                | Nov. 30, 1999 | Carlioni | 600 | 474 |
|           |                          |               |          |     |     |
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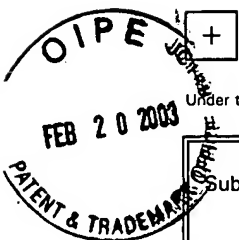
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*Sally Jan*

DATE CONSIDERED 3/3/04.

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





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PTO/SB/08B (10-96)

Approved for use through 10/31/99, OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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|---|---|----|---|--------------------------|------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                  |
|   |   |    |   | Application Number       | 10/018,131       |
|   |   |    |   | Filing Date              | October 22, 2001 |
|   |   |    |   | First Named Inventor     | H. Wehberg       |
|   |   |    |   | Group Art Unit           |                  |
|   |   |    |   | Examiner Name            |                  |
| Sheet   | 1 | of | 1 | Attorney Docket Number   | 18326.0000       |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |   |     |
|---|-----------------------|---|-----|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.  | Pgs |
| RJ  |                       | G. Lauth, G. Mühlberger - Atlas der Plattenthermographie, 1976, Herausgeber: CAWO GmbH, Bremen, Germany   | 91  |
|   |                       | Authors examined 10,000 women with LC Thermography (Liquid crystal thermography) from 1972 to 1975 and by excision or fine needle method did find, from 988 cases, 261 carcinomes. More than 100 coloured images show the importance of cooling the breast during examination with a cooling air blower. However, there are no standards to define the degree of cooling and, therefore, it is impossible to gain reproducible images. If one will reach a high sensitivity and specificity it takes a very long time and a great deal of experience to interpret thermographic images. |     |
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